Eddie Baza Calvo Governor



Anthony C. Blaz Director, Dept. of Admin.

GENERAL SERVICES AGENCY

Government of Guam 148 Route 1 Marine Drive Corp Piti, Guam 96915 Ray Tenorio Lt. Governor

Alfred F. Duenas Deputy Director

September 18, 2015

Invitation for Bid GSA-117-15

12, 24, 48, PORT BROCADE SWITCH

AMENDMENT #3

- 1. AMEND TO CHANGE "BID OPENING" DATE FROM SEPTEMBER 22, 2015 AT 9:00AM TO NOW READ: SEPTEMBER 24, 2015 AT 2:00PM
- AMEND TO REPLACE PAGES 28, 30, 32, 34, 36, AND 37 WITH THE "REVISED 9/18/15" PAGES 28, 30, 32, 34, 36, AND 27 (ATTACHED)

All others remains unchanged.

CLAUDIA S. ACFALLE
Chief Procurement Officer

NO. DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION
1.1 12 Port Switch- 1GB SFP Port	1 EA.	\$	\$
Brocade ICX-6430 as per the following specifications below			
SPECIFICATIONS:	- 8	BIDDING	ON OR REMARK
RJ-45 Ports: 10/100/1000 w/PoE	•		
Activate 10GB Port SFP (1 ea.) Activate 1GB Port SFP (1 ea.)			
10G SFP Single Fiber Module – LR (1 ea.)	8 #	= = =	
1G STP Single Fiber Module – LR (1 ea.)	·	- 12.0	
Fiber Patch Cable 6 feet — (4 ea.) Direct Attached Copper Cable-Twinax 8 ft. (1 ea.)		= 8	
PoE+ Power 12 Port			
Out of band Ethernet Management:		8 2	
10/100/1000Mbps RJ-45		<u> </u>	1
Console Management: RJ45 serial VLAN: 4096		<u>- Maer y y</u>	
Spanning Trees (STP): Max: 32			
MAC Addresses: Max 8000		3+	
Routes: Max 12,000		3 7	
Trunking: Max port per trunk: 8 Trunk Group: 29		. · · · · · · · · · · · · · · · · · · ·	
Truik Gloup. 25			=
Priority Queues: 4 Jumbo Frame Size: 9216 Bytes		<u> </u>	
AC Power Supply 120-220V	2.	11 1 2	
Layer 2		49	
802.1s Multiple Spanning Tree 802.1x			
802.1xAuthentication	9	re -	
Auto MDI/MDIX	a*		
BPDU Guard, Root Guard Switching Capacity (Data Rate, Full Duplex 56Gbps			5: · II
Forwarding Capacity (Data Rate, Full Duplex) 42GB Dual –Mode Vlans	PS	((5.5)	*
	18 1		
Mac-based VLANs, Dynamic MAC based VLAN activ Dynamic VLAN Assignment	ation ·		N = =
Dynamic Voice VLAN Assignment	•		
Fast Port Span GARP VLAN Registration Protocol	· •		
CART VEAR REGISTRALISH FIOLOGO		, =	
IGMP Snooping (v1/v2/v3) ICMP Proxy for Static Group			•
ICMP v2/v3 Fast Leave			
IGMP Tracking		The state of the s	
Inter-Packet Gap (IPG) adjustment	3.5	11 134	
Link Fault Signaling (LFS) Link Fault Signaling (LFS)			
MAC Address Locking; MAC MAC-Layer Filtering		4) R. W.	· ·
MAC Learning Disable	8 9	Table	
MAC-Layer Filtering – Source & Destination MAC a	ddress ,		· · · · · · · · · · · · · · · · · · ·

ITEM	= 345		UNIT	PRICE .
NO.	DESCRIPTION	QTY/UOM	PRICE	EXTENSION
8			140	×
1.2	24 Port Switch- 8 1/10Gb SFP Port	1 ea.	\$	\$
	Brocade ICX7250-24P	38 No. 37		
	specifications below	0 14 1 ==	- 3	
SPECIF	CICATIONS:	10 A	BIDDING	ON OR REMARKS
DLAE	Ports: 10/100/1000			
	SFP Port Activated (2 ea.) w/ Module (2 e			
	FP Port Activated (8 ea.) w/ Module (2 ea			
	FP Single Fiber Module – LR (2 ea.)			Σ
	Single Fiber Module – LR (2 ea.)			· · ·
	Class 3 Port 24 port		·	
	C-LCPatch Cable 6 feet – (6 ea.)			
	Attached Copper Cable-Twinax 8 ft. (1 ea	a.)		
	ced IPv4/v6 L3 routing (RIP, OSPF)	l en e		
	ng bandwidth: 80GPS Full Duplex	**************************************	240	
Stacki	ng density: 12			
	ng Distance: 10km		**************************************	
		112.		No.
	le Management: USB / Serial w/ cable	E 15		
VLAN:			1.77	
	ing Trees (STP): Max: 254	2.		
	Addresses: Max 16,000			
	s: Max 12,000			
Trunki				
	riority Queues: 8			
	Frame Size: 9216 Bytes			
	wer Supply 120-220V dundant Power Supply		9	11 11 12
	ning Capacity: 176Gbps	#		
	rding Capacity 132Mpps	74	•	2
1 O1 Wa	rung capacity 132141pp3		76	
Layer	2 Switching:	•		
	Multiple Spanning Tree			
802.1	Authentication	5) ·	4	
Auto N	MDI/MDIX			a .
BPDU	Guard, Root Guard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H	
Dual-N	Mode VLANs		8	
MAC-	based VLANs, Dynamic MAC based VLAN	activation		- 1
20				
	nic VLAN Assignment			
	nic Voice VLAN Assignment	* * * * * * * * * * * * * * * * * * * *	-	WO II
	ort Span	192 8		
	VLAN Registration Protocol Snooping (v1/v2/v3).		-	St
	ault Signaling (LFS)		•	•
	Vlan Registration Protocol			
	Snooping (v1/v2/v3)		•	
	Proxy for Static Groups		The state of the s	
	v/2/v3 Fast Leave		• •	
	Tracking			
	Packed Gap (IPG) adjustment			
	Address Locking; Port Security		. (g)	
	ayer Filtering	ERE TO THE ERE	4. <u>1.</u>	
	earning Disable	* * * * * * * *		
	inooping (v1/v2)	8.6	1 2	
	device Authentication		.1	
	AN Spanning Tree (PVST/PVST +/PVRST)			
Port-b	ased Access Control Lists	•	3	# 11
	ring - Port-based, ACL-based, MAC	S 55%	2.8	1000
	based, and VLAN-based		**	
Port L	oop Detection	35		

ITEM NO.	DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION
1.3	48 Port Switch- 8 1/10Gb SFP Port	1 ea.	\$.	
1.5	Brocade ICX7250-48P	ı ea.	ν <u>.</u>	Ş
	specifications below		(14) (3)	
SPECII	ICATIONS:		BIDDING O	N OR REMARKS
DI 4E	Ports: 10/100/1000		1	
	SFP Port Activated (2 ea.) w/ Module (2 ea	1		
	P Port Activated (8 ea.) w/ Module (2 ea.)		3	
	P Single Fiber Module – LR (2 ea.)			
	Single Fiber Module – LR (2 ea.)			
	Class 3 Port 48 port			
	LC-LCPatch Cable 6 feet – (6 ea.)		=	
	Attached Copper Cable-Twinax 8 ft. (1 ea.	¥ 10		
	ced IPv4/v6 L3 routing (RIP, OSPF)		. 001	
	ng bandwidth: 80GPS Full Duplex	4 1 1	V to	
	ng density: 12		24.50	-1/2
	ng Distance: 10km			7
	le Management: USB / Serial w/ cable			
VLAN:		993		/a. ·
	ing Trees (STP): Max: 254	I . T		· · ·
	Addresses: Max 16,000		Tr -	
	s: Max 12,000	\$6		
Trunki				
	riority Queues: 8	• %		
	Frame Size: 9216 Bytes			
	wer Supply 120-220V	11 - 12 - 13 - 13 - 13 - 13 - 13 - 13 -		
	dundant Power Supply		,	
	ning Capacity: 176Gbps			
	rding Capacity 132Mpps			
1 OI Wa	ruing Capacity 1321vipps			<u>~</u>
Laver	2 Switching:		* .	. "
	Multiple Spanning Tree	, Y		
	Authentication		- · · ·	•
	MDI/MDIX	1		i i
	Guard, Root Guard			
	Mode VLANs	4 0	•	-1
	based VLANs, Dynamic MAC based		50	
	activation			*
	nic VLAN Assignment			
	nic Voice VLAN Assignment			*/~
	ort Span	. The Late of the		
	VLAN Registration Protocol		* 1 , =	- te
	Snooping (v1/v2/v3)			
	nult Signaling (LFS)			
	Vlan Registration Protocol		1592	
	Snooping (v1/v2/v3)			
	Proxy for Static Groups		•	The same
	v/2/v3 Fast Leave		*0	
	Tracking	*		
	Packed Gap (IPG) adjustment		11/1/1	
	Address Locking; Port Security			
	ayer Filtering		·	
	earning Disable		107	6
	nooping (v1/v2)			•
	device Authentication	**************************************		.4
	AN Spanning Tree (PVST/PVST +/PVRST)	7		•
	ased Access Control Lists	- /		
	ring - Port-based, ACL-based, MAC	9 III I		
	based, and VLAN-based			
	unia Tariit Duscu			

NO.	DESCRIPTION		QTY/UON	1	PRICE	EXTENSION
1.4	Brocade VDX 6720-24 1/10Gbe SFP+		1 ea.	Š		\$
	(equal to or better). As per the following			Ť		, TRE
	specifications					
SPFC	IFICATIONS:				RIDDING (ON/REMARKS
JI LC			268		<u> </u>	JILY KEIVIAKKS
	Gbe SFP+ ports: 24	- 25				
	on Demand (Pod) increments: 16, 24			14		
Activ	ate 24 Port: 10Gb				3. a	
Max	Spanning Tree Instances: 32:					
Max	Port Profiles (AMPP): 256					
Max	Layer 2 Multicast Group: 2000					
VLAN	1: 4096					
MAC	Addresses: Max 32,000		21	1.5		
Max	Per-Port Priority pause Level: 8	100		<u>1</u>		
	LAG Groups in a VCS fabric: 512				•	
	Members in Standard LAG: 16					
	MAC Addresses in a CS fabric: 30000		•		7	12
	Switch in a VCS fabrics: 24	1000				- a
	switches in a VCS fabrics: 24				1	
	ECMP paths in a VCS fabrics: 8			•		
	Truck Members for VCS fabric ports: 8	- E V.	*			1172
	switches across which a vLAG can span: 4					·
	Members in a VLAG: 16					*
	Jumbo Frame Size: 9208 bytes			÷		
	ues per port: 8	٠.	8 3		· · ·	8 (E.)
DCB	Priority Flow Control (PFC) classes	4) ·		•		.21
		l a				
LAYE		1 1 2				
	Learning and Aging	172	70			
	c MAC Configuration	. •	T V T		1965	
	Aggregation Control Protocal (LACP)	12				7 89
802.	3AD.802.1ax					•
VLAN			-1	2		·
VLAN	Encapsulation 802.1Q	TIE				
Rapid	d Spanning Tree Protocal (RSTP) 802.1D					ol sav
Mult	iple Spanning Tree Protocol (MSTP) 802.1S				E	182
Per-\	/lan Spamming Tree (PVST=/PVRST+)	*			N _o F	
Stp P	PortFast & PortFast BDPU Guard					
Laye	r 2 Access Control Lists (ACL)				FFT	
Addr	ess Resolution Protocol (ARP) RFC 826				SAME AND A	THE WAREIN S
	P v1/v2 Snooping		W.			
	e Frames 802.3x				1 1	
						80
VCS	Fabric Features:				1000 T	
	matic Fabric Formation					
	ibuted Fabric Services					
	sport LAN Services		•	•		
	Sport 2 ii (Sc. vides					525 ISA 3
VLA	N .					
	ching Beaconing	93				
Distr	ibuted Configuration Management					
STP	Root Guard					3 8 9
Laye	r 2 Access Control List (ACLs)					
	ess Resolution Protocol (ARP) RFC 826	= -		. =		
	P V1/V2 Snooping				1	• 1 1 1 5
	ibuted Configuration Management		5)			
	Root Guard					
	r 2 Access Control List (ACLs)	51: #K	. 1	٠.		
•	ress Resolution Protocol (ARP) RFC 826			W	T. 18	
	P V1/V2 Snooping				- 0	

NO.			UNIT	PRICE
10.	DESCRIPTION	QTY/UOM	PRICE	EXTENSION
1.5	Brocade VDX 6720 10Gb SFP+ Module	1 ea.	\$	\$
	(equal to or better)			
	ING ON		V 1 - I	
Manu	of origin:	<u>-</u>		
lace	of origin.			
rear:_ Date	of delivery:			
	Office of Technology has upgrade the net led within the government.	work with Brocade swi	tch. Spec is si	milar to existing Brocade s
	ired By: Ben Camacho, System & Programi	mer Administrator – Of	fice of Techno	ology 6/29/15
And∙a	pproved by: Anthony Blaz, Director.			
5 4			ı,v ≜ jı	
			. 5.21.6	
1.6	Brocade VDX 6720 1Gb SFP+ Module	1 ea.	\$	<u> </u>
	Multi-Mode (equal to or better)		4	
*				
	ING ON			
	ıfacturer:			
Place	of origin:		7 8	
Year:	of delivery	y = 7.1 '3.8		
Date	of delivery:		190	
Note:	Office of Technology has upgrade the net led within the government.	work with Brocade swi	tch. Spec is si	milar to existing Brocade s
	그렇게 그렇게 들어 열어 필요 됐다.		· · · · · ·	
Prepa	ared By: Ben Camacho, System & Program	mer Administrator – Of	fice of Techn	ology 6/29/15
Prepa	그렇게 그렇게 들어 열어 필요 됐다.	mer Administrator – Of	fice of Techn	ology 6/29/15
Prepa	ared By: Ben Camacho, System & Program	mer Administrator – Of	fice of Techn	ology 6/29/15
Prepa And a	ared By: Ben Camacho, System & Program		fice of Technology	ology 6/29/15
Prepa And a 	Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better)			
Prepa And a	Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better)			
Prepa And a 1.7 BIDDI	Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better)			
Prepa And a 1.7 BIDD Manu Place	Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better) ING ON ufacturer: of origin:			
Prepa And a 1.7 BIDDI Manu Place Year:	Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better) ING ON Ifacturer: of origin:			
Prepa And a 1.7 BIDDI Manu Place Year:	Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better) ING ON ufacturer: of origin:			
Prepa And a 1.7 BIDDI Manu Place Year: Date	Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better) ING ON ufacturer: of origin:	1 ea.	\$	\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Prepared By: Ben Camacho, System & Programmer Administrator – Office of Technology 6/29/15 And approved by: Anthony Blaz, Director

NO.	DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION
B.1	Brocade VDX 6720 1GB TX	1 ea.	\$	\$
	(equal to or better)			
SIDD	ING ON			
Manu	ufacturer:			
	of origin:			
	besterting reducing to delegation.			
	of delivery:			
nstal	: Office of Technology has upgrade the ne lled within the government. Prepared By nology 6/29/15 And approved by: Antho	: Ben Çamacho, System		
				<u></u>
9.1	Brocade VDX 6720 10GB TX	1 ea.	Ś	\$
	(equal to or better)			
	(column to or potter)			
טטוג	ING ON	E 'F S F P E E		TAR THE SERVE
	ufacturer:			
			The grade	
	of origin:			
ate	of delivery:	_		
0.1		5 ea.	\$	\$
	6 feet. (equal to or better)			
BIDD	ING ON		257	
	ufacturer:	Le grand and	-	
	of origin:			
ear:				
	of delivery:			
	of delivery.		H g = 100 H	
Mote	: Office of Technology has upgrade the ne	atwork with Brocade sw	itch ·Snec is	similar to existing Brocade sw
	lled within the government.	stwork with brocage sw	iten. Specia.	minut to existing brocade sw
iistai	ned within the government.			
	ared Du Ban Campaha, Sustana & Drogram	amar Administrator O	ffice of Toche	ology 6/20/15
-	ared By: Ben Camacho, System & Program	imer Administrator – O	ince or recon	010gy 6/29/15
Ana .a	approved by: Anthony Blaz, Director			Frank - kind - i
		Type Market Telephone		
5.0				
1.1	LC-LC Single Mode Fiber Patch Cable 30	Oft 15 ea.	\$	<u> </u>
SIBD	ING ON			
		ta most in all and		
	ufacturer:			
	e of origin:			
Date	of delivery:	And Shake San	•	
Note	: Office of Technology has upgrade the ne	etwork with Brocade sw	itch. Spec is s	imilar to existing Brocade sw
insta	lled within the government.			
	ared Du Ban Camacha, System & Brogram	amor Administrator 'O	ffice of Tachn	ology 6/20/15

Prepared By: Ben Camacho, System & Programmer Administrator – Office of Technology 6/29/15 And approved by: Anthony Blaz, Director